

ABSTRACT

A ~~[[H]]~~hybrid protein~~[[s]]~~ comprising associated a membrane protein with and an ion channel which is not naturally coupled to the membrane protein. Nucleic acids and cells encoding or expressing such hybrid proteins. ~~and their~~ Methods for detecting and screening molecules of interest using such hybrid proteins, such as methods which involve their use as electrical sensors of binding of a molecule to the membrane protein component of the hybrid protein ~~of said membrane proteins (receptor, transporter) activity, for studying said membrane proteins, and for detecting and screening molecules of interest.~~